

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS FO Box 1430 Alexandria, Virginia 22313-1450 www.tepto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.	
10/579,585	05/17/2006	Bernd Kusel	KUSEL-6 PCT	3570
25889 COLLARD &	7590 06/15/200 ROE P.C	9	EXAMINER DEUBLE, MARK A	
1077 NORTH	ERN BOULEVARD			
ROSLYN, NY	11576		ART UNIT	PAPER NUMBER
			3651	
			MAIL DATE	DELIVERY MODE
			06/15/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/579,585 KUSEL, BERND

066 4-4 0	1					
Office Action Summary	Examiner	Art Unit				
	MARK A. DEUBLE	3651				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence ac	ldress			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. J. Estensions of time may be available under the provisions of 3 CPR 1.13 after SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the six or extended period for reply will. by statute, Any reply received by the Office later than three months after the mailing aemed patent term adjustment. See 37 CPR 1.70(4).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this o D (35 U.S.C. § 133).	,			
Status						
1) Responsive to communication(s) filed on						
2a) This action is FINAL . 2b) This action is non-final.						
 Since this application is in condition for allowar 	nce except for formal matters, pro	secution as to the	e merits is			
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-9 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-9</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) acce		Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is ob	jected to. See 37 C	FR 1.121(d).			
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P	ΓO-152.			
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).				
a)⊠ All b)□ Some * c)□ None of:						
 Certified copies of the priority documents 	s have been received.					
Certified copies of the priority documents						
Copies of the certified copies of the prior	•	ed in this National	Stage			
application from the International Bureau						
* See the attached detailed Office action for a list	of the certified copies not receive	ed.				
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Day					
3) X Information Disclosure Statement(s) (PTO/S5/08)	5) Notice of Informal F					
Paper No(s)/Mail Date .	6) Other:					

Paper No(s)/Mail Date ___

Application/Control Number: 10/579,585 Page 2

Art Unit: 3651

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as

the invention.

Claim 1, lines 8-9, state that the optoelectronic system "detects the carrying side and/or the running side, particularly the carrying side" of the belt which renders the scope of the claim impossible to ascertain because it is unclear the whether the detecting of the carrying side is a required part of the device as suggested by the phrase "particularly" or an optional part of the device as suggested by the phrase "and/or."

Claim 1, line 11-13, state that the optoelectronic system "triggers an acoustical and or optical alarm and/or, in particular, brings about an automatic shut-down of the system" which renders the scope of the claim impossible to ascertain because it is unclear whether the bringing about of the automatic shut-down is a required part of the device as suggested by the phrase "in particular" or an optional part of the device as suggested by the phrase "and/or."

Claim 1 recites the limitation "the date" in line 16. There is insufficient antecedent basis for this limitation in the claim.

Claim 1, lines 18-21 recites the phrase "as well as other system parts, namely contact drums, support rollers, support scaffolding, as well as any other components that might be necessary." This phrase renders the scope support claims impossible to ascertain because it is

Application/Control Number: 10/579,585

Art Unit: 3651

unclear if the contact drums, support rollers, and scaffolding are required parts of the invention and because it is unclear what other parts might be necessary parts of the device.

Claim 1 recites the limitation "the reference frequency" in line 24. There is insufficient antecedent basis for this limitation in the claim.

Claim 1 recites the limitation "the reports" in line 27. There is insufficient antecedent basis for this limitation in the claim.

Claim 1, lines 26-27, state that a process computer evaluates the change in frequency "with simultaneous balancing" with reports from the optoelectronic system. It is unclear what "balancing" takes place in the process computer or what the word balancing means in the context of evaluating data.

Claim 1, lines 326-30, states that process computer brings about "an acoustical and or optical alarm and/or, in particular, brings about an automatic shut-down of the system" which renders the scope of the claim impossible to ascertain because it is unclear the bringing about of the automatic shut-down is a required part of the device as suggested by the phrase "in particular" or an optional part of the device as suggested by the phrase "and/or."

Claim Rejections - 35 USC § 102

 The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claims 1-2 and 8-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Weber (DE 3611125 A1).

Art Unit: 3651

Weber shows a device for monitoring a conveyor having a belt 7 made of elastomer material and having a carrying side for the goods to be conveyed and a running side supported by support rollers, contract drums and scaffolding, and an embedded strength support. An optoelectronic system 26 optically detects the running side of the belt to recognize damage during operation. If a critical state of the conveyor belt is reached an acoustical and/or optical alarm is triggered at alarm unit (display 29 or speaker 31) of a process computer unit 30 to which they are connected. The process computer is coupled with the optoelectronic system for the purpose of evaluating data from the optoelectronic system. The device is additionally equipped with at least one structure-borne noise sensor 23 disposed in the vicinity of the optoelectronic system that detects changes in the sound of the conveyor. These changes in sound may be considered to be deviations from a reference frequency in the absence of any language in the claim defining the reference frequency. The process computer is also connected with the structure-borne noise sensor to evaluates the change in frequency at the same time as it evaluates reports from the optoelectronic system, so that even in a case where the optoelectronic system itself does not report a critical state, an acoustical alarm, optical alarm, or automatic shut-down of the conveyor may be brought about. Thus Weber shows all the structure required by claims 1-2 and 8-9

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all
 obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Application/Control Number: 10/579,585

Art Unit: 3651

 Claims 1-2 and 8-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schnell (WO 2005/023688 A1) in view of Hueser (DE 195 32 010 A1).

Schnell shows a device for monitoring a conveyor having a belt 1 made of clastomer material and having a carrying side for the goods to be conveyed and a running side supported by support rollers 2, contract drums and scaffolding, and an embedded strength support. An optoclectronic system 3 optically detects the carrying side of the belt to recognize damage during operation. If a critical state of the conveyor belt is reached an acoustical alarm, optical alarm 8, or stopping of the conveyor belt is triggered by a process computer unit 7 connected to the alarms. The process computer is coupled with the optoelectronic system for the purpose of evaluating data from the optoelectronic system. However, Schnell does not include the noise sensor required by claim 1.

Hueser shows a conveyor belt device of the type shown in Schnell that is equipped with at least one structure-borne noise sensor 22 that detects changes in the sound of the conveyor. These changes in sound may be considered to be deviations from a reference frequency in the absence of any language in the claim defining the reference frequency. A process computer 23 is also connected with the structure-borne noise sensor to evaluates the change in frequency at the same time as it evaluates reports from the optoelectronic system, so that even in a case where the optoelectronic system itself does not report a critical state, an acoustical alarm, optical alarm, or automatic shut-down of the conveyor may be brought about. Hueser teaches that the noise sensor provides another means of monitoring the damage in a conveyor belt. Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to connect the sensor 22 to the process computer 7 of Schnell to provide a back up means of monitoring the

Application/Control Number: 10/579,585

Art Unit: 3651

conveyor belt. When this is done, the resulting device would have all the structure required by claims 1-2 and 8-9.

Allowable Subject Matter

Claims 3-7 would be allowable if rewritten to overcome the rejection(s) under 35
 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Conclusion

 The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MARK A. DEUBLE whose telephone number is (571)272-6912. The examiner can normally be reached on Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gene O. Crawford can be reached on (571) 272-6911. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Mark A. Deuble/ Primary Examiner Art Unit 3651

md